

VARGAS  
DEFENDANT'S  
PRETRIAL MEMO

EXHIBIT  
A

**Yale** SCHOOL OF MEDICINE  
*Department of Internal Medicine*

Jonathan B. Stepanian  
McQuaide Blasko, Attorneys at Law  
1249 Cocoa Avenue Suite 210  
Hershey, PA 17033-2903

Re: Vargas v. Penn State Hershey

Dear Mr. Stepanian:

**Section of Digestive Diseases**

LOREN LAINE, MD

*Professor of Medicine*

*Director, Clinical Research*

*Interim Chief, Section of Digestive Diseases*

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Room S241

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At your request I have reviewed the following materials related to this case:

1. Plaintiff's Complaint;
2. Records from Hershey Medical Center, including photographs taken during the patient's upper endoscopy and colonoscopy;
3. Autopsy Report and Death Certificate;
4. US Airways Incident Report;
5. Medical records of Carolinas Medical Center;
6. Medical records of Mecklenberg EMS;
7. Records of York Pathology Associates;
8. Deposition transcript of Charles Dye, MD;
9. Deposition transcript of Daniel Lotner, MD;
10. Deposition transcript of Simon Mucha, MD;
11. Deposition transcript of Isabel Brea, MD;
12. Deposition transcript of Amy Welch, MD;
13. Deposition transcript of Robert Thomas, MD;
14. Deposition transcript of Joanna Vargas;
15. Deposition transcript of Pastor Philip Cappucio;
16. Deposition transcript of Jerry Ray;
17. Deposition transcript of Adam Vargas;
18. Deposition transcript of David Vargas;
19. Deposition transcript of Justin Vargas, Jr.;
20. Deposition transcript of Justin Philip Vargas;
21. Report and Supplemental Report of Neil Julie, MD.

Briefly, Mr. Vargas was a 68 year-old man who was visiting Pennsylvania from Florida when he began passing blood from his rectum early on the morning of December 2, 2014. He also became lightheaded. He presented to the Hershey Medical Center Emergency Department where he was found to be hypotensive (his blood pressure was decreased). He received intravenous fluids which normalized his blood pressure within approximately an hour. The Hershey Medical Center records indicate that Mr. Vargas had a history of diverticular



bleeding approximately 6-8 years earlier. In addition, he had been taking large doses of nonsteroidal anti-inflammatory drugs for hip pain in the week before he developed bleeding.

Mr. Vargas was admitted to the hospital the morning of December 2, 2014 and was seen in consultation by the gastroenterology service. He underwent upper gastrointestinal endoscopy and colonoscopy the afternoon of December 2, 2014. Clean-based stomach ulcers were seen on the upper endoscopy and diverticula were seen on the colonoscopy. No blood or stigmata of hemorrhage were seen on either examination. The patient had no symptoms or signs of bleeding after presentation to the hospital and his vital signs remained normal after admission. His hemoglobin equilibrated after admission, with the last value of 8.5 g/dl prior to discharge demonstrating stabilization. The patient was discharged just after noon on December 3, 2014. The discharge summary, signed on the afternoon of December 3, 2014, states that the patient had a flight to catch and despite the medical team's concern for rebleeding the patient insisted on leaving. The gastroenterology note from December 3, 2014 indicates that gastric ulcers were the likely source of bleeding, but also mentions diverticula and hemorrhoids as other findings that were identified but not bleeding at colonoscopy. This note also indicated there was low likelihood for rebleeding.

That night, while on a plane flight from Philadelphia to Florida, Mr. Vargas developed rectal bleeding, weakness, and dizziness. The plane was diverted to Charlotte and paramedics met the plane on arrival. The paramedic report indicates that Mr. Vargas was found to have decreased breathing with a weak and slow pulse. He subsequently lost his pulses and resuscitation efforts were performed by paramedics. With these efforts he had recovery of spontaneous circulation and was transported to Carolinas Medical Center. On presentation he was unresponsive with occasional spontaneous breathing and faint pulses. However, he again arrested and resuscitation efforts were unsuccessful. An autopsy report indicates that the colon was the site of bleeding and concluded the bleeding was diverticular in origin.

Dr. Julie, the plaintiff's gastroenterology expert, stated that since the gastrointestinal procedures did not render a clear diagnosis, Mr. Vargas should have been kept in the hospital for a period of several days for observation. In addition, he stated that if Mr. Vargas insisted on leaving the Medical Center the physicians had an obligation to explain to Mr. Vargas, especially since they were aware of his plans to fly, that his risks were so serious that he could only leave with the understanding that it must be Against Medical Advice. Further, Dr. Julie states that the autopsy findings confirm that gastric ulcers were a complete

misdiagnosis, and that the absence of stigmata of recent hemorrhage was overlooked evidence that informed the treaters that bleeding gastric ulcer was an incorrect diagnosis. In his addendum Dr. Julie indicates the misdiagnosis resulted in an incorrect assumption as to the risk of rebleeding. Further he suggests that expansion of intestinal gas by 25% at 8000 feet logically can increase bleeding risk in patients with intestinal weakness like diverticulitis or ulcers. He states that it was not within standard of care to prematurely discharge Mr. Vargas, particularly when providers knew boarding a flight greatly enhanced the risk.

My review leads me to the conclusion that the care provided at Hershey Medical Center was appropriate and within the standard of care. Below, I summarize the general areas in which Dr. Julie was critical of the care at Hershey Medical Center and the reasons I believe the care was within the standard of care.

***Treaters should have known bleeding gastric ulcer was an incorrect diagnosis.***

Concluding that gastric ulcers were a likely source of bleeding was within the standard of care. Patients such as Mr. Vargas who present with blood from the rectum along with hypotension may be bleeding from anywhere along the length of the gastrointestinal tract, from the esophagus or stomach down to the colon. Mr. Vargas' report of a recent upset stomach mentioned in the December 2<sup>nd</sup> gastroenterology consult note also can be consistent with ulcer disease. Dr. Julie states that the absence of stigmata of hemorrhage should have informed the treaters that bleeding gastric ulcer was an incorrect diagnosis. However, this is not correct. A clean-based ulcer is the most common finding among patients hospitalized with bleeding ulcers.

Diverticular bleeding also would be considered in Mr. Vargas, and the medical records indicate it was in the differential diagnosis. Diverticula are an extremely common finding in anyone of Mr. Vargas' age who undergoes a colonoscopy for any reason--expected in approximately half of such patients. No stigmata of hemorrhage were associated with Mr. Vargas' diverticula. The lack of stigmata of hemorrhage or blood does not rule out diverticula as a cause of bleeding and is common in patients with diverticular bleeding. But the lack of stigmata or bleeding also would prevent providers from making a definitive diagnosis of diverticular bleeding during the hospitalization.

At the time of Mr. Vargas' discharge, based on his presentation and hospital course, no one could be certain whether ulcers or diverticula were the cause of his gastrointestinal bleeding. Providers would be within the standard of care

whether they concluded that ulcers or diverticula were the likely cause of Mr. Vargas' bleeding.

***The misdiagnosis resulted in an incorrect assumption as to the risk of rebleeding and Mr. Vargas should have been kept in the hospital for a period of several days for observation.***

The standard of care for patients with clean-based gastric ulcers who have stopped bleeding and are otherwise stable is to discharge them home due to the very low likelihood of serious recurrent bleeding. Dr. Julie indicates Mr. Vargas should have remained in the hospital for several more days. Given that diverticular bleeding was the other possible diagnosis, this implies that Dr. Julie believes that there is a high risk of rebleeding from diverticula. However, this is not correct. Virtually no patients whose diverticular bleeding has stopped have recurrent bleeding within several days. Even at one year, rebleeding rates are low: e.g., 4-5%. Thus, whether due to a clean-based gastric ulcer or diverticula without stigmata of hemorrhage, the risk of serious recurrent bleeding in the next several days was very low. At the time of discharge, I would have estimated the risk of serious recurrent bleeding within the next day or two at probably less than 1%, with the risk of a rapidly exsanguinating hemorrhage being much less.

***Taking a plane flight increased the rebleeding risk for Mr. Vargas due to expansion of intestinal gas by 25%.***

Dr. Julie cites a 2003 Aerospace Medical Association guideline to support his contention that the bleeding risk was increased for Mr. Vargas due to the plane flight. That document indicates that cabin altitude on most flights is between 5000 and 8000 feet. In the section on Surgical Conditions, the document states that intestinal gas will expand by 25% at 8000 feet and that air travel should be discouraged for 1-2 weeks after abdominal surgery due to post-operative ileus and the potential risk of tearing of sutures and post-operative bleeding from ulcers or suture sites. The document also suggests delaying flight for 24 hours after colonoscopy with polypectomy due to the large amount of gas that may be present immediately after colonoscopy. Neither of these situations applies to Mr. Vargas. He did not have abdominal surgery and he did not have a polypectomy--and in any event his colonoscopy was more than 24 hours before his flight.

Furthermore, proper guidelines base their recommendations on evidence, but no reference is provided to support these statements in the guideline. I know of no good evidence and no evidence-based recommendations that indicate that flying will increase the risk of recurrent bleeding. When we perform endoscopy on patients with gastrointestinal bleeding we rapidly expand the volume of air within the stomach (on upper endoscopy) or colon (on colonoscopy) by more than 25%

and I have no experience or knowledge that this increases the risk of bleeding. Furthermore, I performed a MEDLINE literature search using the medical subject heading terms of "air travel" and "gastrointestinal hemorrhage" and found no articles.

When discussing the risk of air travel in his report, Dr. Julie also mentions diverticulitis, presumably because diverticulitis is mentioned in the last paragraph of the final summary of the autopsy report. However, it is quite clear that the patient did not have diverticulitis, which is a disorder with acute inflammation around a diverticulum (diverticula are outpouchings in the intestinal wall). Mr. Vargas had no symptoms, signs, or laboratory findings consistent with diverticulitis during hospitalization. In addition, he had an abdominal CT scan (the most sensitive test for diverticulitis) which did not show evidence of diverticulitis. Finally, the autopsy did not report any gross or microscopic findings indicative of diverticulitis. The final pathologic diagnosis of the autopsy report mentions only diverticulosis and diverticular hemorrhage, the internal gross examination does not identify evidence of diverticulitis, and the microscopic examination does not mention evidence of inflammation. At his deposition, Dr. Thomas, the pathologist who performed the autopsy, confirmed that he could not recall any gross evidence of diverticulitis (no photographs were taken), and no microscopic evidence of acute inflammation was seen. Mild chronic inflammation, mentioned in the deposition but not the autopsy report, is not evidence of an episode of diverticulitis.

***Mr. Vargas should only have been allowed to leave with the understanding that is was against medical advice.***

It is widely accepted in medicine today that shared decision making should be incorporated in clinical practice to improve the quality of care. High-quality evidence is usually not available to inform medical decisions and in most cases, there is no one appropriate course of management. Rather, by providing patients information about the various options, including the benefits and risks of each option, providers and patients can work together to develop a management plan. An important point in development and implementation of guideline recommendations is that consideration of patient preferences is key in decisions on care. Thus, the standard of care would not require the providers to make the patient sign out against medical advice. Much more appropriate is discussion with the patient about issues, such as bleeding risk, timing of discharge, and desire to catch a flight, to allow the patient and his providers to consider the relevant factors and share in the decision. I felt the medical record and the deposition testimony gave evidence that such shared decision making occurred and met the standard of care.

The discharge summary, written at the time of hospitalization and before the patient's rebleeding episode, clearly indicate that factors such as the patient's desire to return home and the possibility of rebleeding were considered in reaching the decision that the patient would leave the hospital on December 3, 2014.

The deposition testimony of Dr. Simon Mucha (a hospitalist caring for Mr. Vargas on December 2, 2014) further illustrates the fact that issues of rebleeding were discussed by providers and Mr. Vargas when decisions about discharge were being made. Dr. Mucha testified he told Mr. and Mrs. Vargas that the fact that he had a low likelihood of rebleeding doesn't mean a zero percent chance. Dr. Mucha also testified that he told them he didn't know how a plane ride would affect the risk of bleeding and wasn't aware of any data regarding how much more or less likely it is that gastrointestinal bleeding occurs on a plane. He also testified that he told them that while he believed Mr. Vargas would be stable to leave the hospital assuming everything overnight remained stable, he would feel more comfortable if Mr. Vargas was in an environment where if the low chance that anything bad would happen that they could seek medical attention in a more expedited fashion.

Dr. Lotner (a hospitalist caring for Mr. Vargas on December 3, 2014) testified that Mr. Vargas was asking to be discharged on December 3<sup>rd</sup>. When he spoke to Mr. Vargas that morning he did not want Mr. Vargas to leave but agreed that he could recheck his hemoglobin level and if it was stable or improved Mr. Vargas could potentially leave. The repeat hemoglobin testing showed that the hemoglobin had stopped decreasing and the repeat hemoglobin was somewhat higher than the prior value.

Thus, the providers appropriately discussed the issues of rebleeding and considered the patient's preferences in reaching a shared decision regarding the time of discharge. I believe they acted reasonably in considering Mr. Vargas' diagnosis and his discharge from the hospital on December 3, 2014.

I hold all of the opinions to a reasonable degree of medical certainty.

Sincerely,

A handwritten signature in cursive script, appearing to read "Loren Laine".

Loren Laine, M.D

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## **CURRICULUM VITAE**

December, 2016

### **Personal Information:**

Name: Loren Laine, M.D.

Business Address: Section of Digestive Diseases  
Yale School of Medicine  
P.O. Box 208019  
New Haven, CT 06520-8019  
(Location: 15 York St. LMP 1080  
New Haven, CT 06510)

Telephone: 203-937-3462  
FAX: 203-785-7273 (Yale)  
email: [LOREN.LAINE@YALE.EDU](mailto:LOREN.LAINE@YALE.EDU)

Date of Birth: December 1, 1954  
Place of Birth: Los Angeles, California  
Citizenship: U.S.A.  
Gender: Male

### **Education/Training:**

College: Pomona College, Claremont, California  
B.A. Chemistry-Zoology (Magna cum laude) 1975

Medical School: UCLA School of Medicine, Los Angeles, CA  
M.D. 1979

Internship: UCLA - Los Angeles, California  
Medicine 1979 to 1980

Residency: UCLA - Los Angeles, California  
Medicine 1980 to 1982

Fellowship: UCSD - San Diego, California  
Gastroenterology 1982 to 1984

### **Professional Positions:**

Chair, Fecal Microbiota Transplantation National Registry Steering  
Committee (NIAID R24 AI118629) August 2016 to July 2021

Associate Director, Clinical-Translational Core  
Yale Digestive Disease Center (NIDDK P30 DK34989)  
2013 to present

Professor of Medicine (Digestive Diseases)  
Director of Clinical Research



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Yale University School of Medicine  
2011 to present

Chief of Staff/President of Medical Staff Association  
L.A. County + U.S.C. Healthcare Network  
2010 to 2011

Associate Chair, Department of Medicine  
USC School of Medicine, Los Angeles, California  
2009 to 2011

Professor of Medicine  
USC School of Medicine, Los Angeles, California  
1994 to 2011

Chief, Gastroenterology Section  
L.A. County + USC Medical Center, Los Angeles, California  
1994 to 2011

Associate Director  
Division of Gastrointestinal and Liver Diseases  
USC School of Medicine  
1992 to 2011

Director of Endoscopy  
Division of Gastrointestinal and Liver Diseases  
USC School of Medicine  
1990 to 2011

Associate Professor of Medicine  
USC School of Medicine  
1991 to 1994

Assistant Professor of Medicine  
USC School of Medicine  
1985 to 1991

Assistant Professor of Clinical Medicine  
USC School of Medicine  
1984 to 1985

**Certification:** National Board of Medical Examiners 1980  
Internal Medicine (American Board of Internal Medicine 1982)  
Gastroenterology (American Board of Internal Medicine 1985)

**Honors and Awards:** Alpha Omega Alpha  
Phi Beta Kappa  
Crozier Lectureship, Lahey Clinic, Dept. of Medicine and GI Division,  
September 17-18, 1998

Dr. Norman Frankel Visiting Scholar Award. University of Chicago. GI Division. November 30, 2000  
American College of Gastroenterology Governors Award for Excellence in Clinical Research, 2000  
Frederick F. Paustian, M.D. Lectureship. University of Nebraska Dept. of Medicine and GI Division. April 4-5, 2002  
AGA Fitterman Foundation Clinical Research in Gastroenterology Award, 2002  
American College of Gastroenterology Baker Presidential Lectureship 2003  
American Gastroenterological Association John Walsh Memorial Lectureship, 2004  
South African Gastroenterology Society Solly Marks Lectureship 2008  
American Journal of Gastroenterology Lectureship, 2009  
American Gastroenterological Association Don Powell Lectureship, 2011  
Canadian Association of Gastroenterology R.D. McKenna Memorial Lectureship, 2011  
Goyal Family Visiting Professorship, Boston VA Healthcare System, Harvard Medical School. April 12-13, 2011  
Charles A. Flood Memorial Lectureship. Columbia and Cornell Universities. December 1, 2012.  
Ken and Louise Rosenberg Visiting Professorship, GI Division, Brigham & Women's Hospital, Harvard Medical School, April 25, 2013  
Barbara Frank Visiting Professorship, Dept. of Medicine. Drexel University School of Medicine. October 30, 2013  
Frederick and Irene Stare Visiting Professorship. Dept. of Medicine. Newton-Wellesley Hospital, Harvard and Tufts Medical School, November 12-13, 2013  
Fellow, Royal College of Physicians, 2013  
Howard Spiro Teaching Award, Yale School of Medicine, 2014

**Membership -- Medical and Scientific Societies:**

American Gastroenterological Association Fellow  
American Society for Gastrointestinal Endoscopy  
Fellow of the American College of Gastroenterology  
Fellow of the American College of Physicians  
Fellow of the Royal College of Physicians

**Service to Professional Organizations:**

**American Gastroenterological Association**

Officer

Chair of Nominating Committee 2014  
Chair 2013-2014  
President 2012-2013  
President-Elect 2011-2012  
Vice-President 2010-2011  
Governing Board 2000-2002, 2003-2006, 2010-14  
Leadership Cabinet, 2004-2006, 2010-2014  
Digestive Disease Week Council, 2003-2006, 2011-2013  
Chair, American Gastroenterological Association Council, 2003-2006

Chair-Elect, American Gastroenterological Association Council, 2002-2003  
American Gastroenterological Association Council 1995-2006  
Vice-Chairman (1999-2000) and Chairman (2000-2002) Clinical Practice Section  
Chair (2001) of Nominating Committee, Esophageal, Gastric, and Duodenal Disorders  
Section  
Vice-Chairman (1995-97) and Chairman (1997-99), Esophageal, Gastric, and Duodenal  
Disorders Section

**Other Service**

AGA Research Advocacy Subcommittee, 2015-  
Chair, AGA Annual Clinical Congress, January 22-24, 2015  
Executive Board, Center for Diagnostics and Therapeutics 2014-  
Scientific Advisory Board, Center for Gut Microbiome Research and Education 2012-  
Audit Committee 2014-2015  
Nominating Committee, 2013, 2014  
Appointments Committee, 2012-13  
Finance Committee 2010-14  
Registry Executive Management Board 2010-11  
Abstract Reviewer: Esophageal, Gastric, and Duodenal Disorders Section (NSAIDs)  
2009-12  
Foundation for Digestive Health and Nutrition, Regional Board Member, 2009 - 2011  
Task Force on AGA Council, 2007-08, 2010-11  
Guideline Development Task Force 2006-7, 2011  
Education and Training Committee, 2003-6  
Nominating Committee, Esophageal, Gastric, and Duodenal Disorders Section, 2001-3  
American Digestive Health Foundation, Development Committee 1999-2001  
Clinical Practice Committee 1996-99  
Research Task Force 1998  
Nominating Committee 1996-97  
American Digestive Health Foundation Digestive Health Initiative Scientific Advisor  
1994-97  
Undergraduate Teaching Project, Helicobacter Pylori Section Author. 1995-96  
Director, American Gastroenterological Association Annual Postgraduate Course  
May 13-14, 1995  
Chairman, Helicobacter pylori Section, Annual Scientific Meeting May 1994  
American Gastroenterological Association Fellow

**American Board of Internal Medicine**

Gastroenterology Subspecialty Board 1997-2003

**Accreditation Council for Graduate Medical Education**

Reviewer of Gastroenterology Training Programs 1994-99

**American Federation of Clinical Research (Western Section)**

GI Section Abstract Reviewer, Annual Meeting, Carmel, CA February 1995  
President, Western Gut Club (American Federation of Clinical Research (Western  
Section)) 1994  
Steering Committee, Western Gut Club, 1992-1994  
GI Section Abstract Reviewer, Annual Meeting, Carmel, CA February 1993  
GI Section Moderator and Abstract Reviewer, Annual Meeting, Carmel, CA. February,

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1991

**American Society for Gastrointestinal Endoscopy**

Co-Director, 3<sup>rd</sup> National Gastroenterology Program Directors Workshop, February 1991  
Budget & Financial Planning Committee. 1993 to 1995  
Scientific Program Committee. 1992 to 1993  
Technology Assessment Committee. 1989 to 1992

**American College of Gastroenterology**

American College of Cardiology Foundation/American College of  
Gastroenterology/American Heart Association Expert Panel and Writing Group,  
Proton Pump Inhibitors and Thienopyridines, 2010  
Research Committee, American College of Gastroenterology 1991 to 1993  
Agency for Health Care Policy and Research American College of Gastroenterology  
Representative 1992  
Editor, American College of Gastroenterology Educational Audio Tape Program  
(Stomach and Duodenum) 1990  
Fellow American College of Gastroenterology

**American College of Radiology**

Expert Panel on Gastrointestinal Imaging. 1997 to 2005

**Southern California Society of Gastrointestinal Endoscopy**

Program Chairman, 1988-1989  
Treasurer, 1989-1990  
President-elect, 1991  
President, 1992

**Federal Government or Foundation Service: Grant Review, Advisor:**

National Commission on Digestive Diseases (NIDDK) 2006-2007  
External Advisory Board: NIH Digestive Disease Center—University of Virginia, 2004-2008  
Chair, DSMB for NIH-DK R01-Grant 49527  
NIDDK Ad Hoc Grant Reviewer  
Veteran's Administration Ad Hoc Grant Reviewer  
Bill and Melinda Gates Foundation Ad Hoc Grant Reviewer  
Hong Kong Research Grants Council Ad Hoc Grant Reviewer  
Agency for Healthcare Research and Quality Effective Healthcare Program: Technical Expert  
Panel for Comparative Effectiveness Review "Comparative Effectiveness and Safety of  
Analgesics for Osteoarthritis". 2010-2011  
Food and Drug Administration: Gastrointestinal Drugs Advisory Committee, 1996-2001;  
Anti-Infective Division Advisor (H. pylori), 1995-2000;  
Advisor (Special Government Employee): 1995-present  
Chinese University of Hong Kong Doctoral Board of Examiners (Ad hoc: Dr. Francis Chan,  
Dr. Joseph Sung)

**Editorial Staff -- Scientific Journals:**

Associate Editor, Gastroenterology, 2002 - 2006  
Associate Editor, Gastrointestinal Endoscopy, 1992 to 1997

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Editorial Board, Clinical Gastroenterology and Hepatology, 2003 to 2006  
Editorial Board, Evidence-Based Gastroenterology, 2000 to 2009  
Editorial Board, American Journal of Medicine, 1996 to 2009  
Editorial Board, American Journal of Gastroenterology, 1997 to 2004  
Editorial Board, Digestive Diseases, 1993 to 2003  
Editorial Board, Alimentary Pharmacology and Therapeutics, 1994 to 2002, 2004 to present  
Editorial Board, Journal of Clinical Gastroenterology, 2014 to present  
Guest Editor, Alimentary Pharmacology & Therapeutics. Management of Helicobacter pylori infection. 1997;11 (Suppl 1):1-116.  
Gastroenterology, "Selected Summaries" Section, 1990 - 1993

**Reviewer -- Scientific Journals:**

New England Journal of Medicine  
Annals of Internal Medicine  
JAMA  
Lancet  
American College of Physicians Journal Club  
American Journal of Medicine  
Gastroenterology  
Clinical Gastroenterology and Hepatology  
Digestive Diseases and Sciences  
Gastrointestinal Endoscopy  
Hepatology  
Gut  
American Journal of Gastroenterology  
Alimentary Pharmacology and Therapeutics  
Endoscopy  
Journal of Clinical Gastroenterology  
Digestive Diseases  
Journal of Clinical Oncology  
Journal of Intensive Care Medicine  
Quarterly Journal of Medicine  
United European Gastroenterology Journal

**Visiting Professorships and Invited Lectures -- Medical Schools/Institutions:**

UCSF School of Medicine, Division of Gastroenterology. June 29, 1988  
UCSD School of Medicine, Division of Gastroenterology. July 26-27, 1988  
University of Arizona, Division of Gastroenterology. December 14, 1988  
Indiana University, Division of Gastroenterology. March 28, 1989  
UCSD School of Medicine, Division of Gastroenterology. June 14, 1989  
UCSF School of Medicine, Division of Gastroenterology. June 21, 1989  
Loma Linda University School of Medicine (Riverside General Hospital). May 10, 1989  
Harbor-UCLA Medical Center, Department of Medicine. August 15, 1989  
UC Irvine (Long Beach VA), Department of Medicine. September 15, 1989  
North Shore University Medical Center (Cornell University), GI Division. November 2, 1989  
Kansas University, Division of Gastroenterology. January 11, 1990  
University of Missouri at Kansas City, Division of Gastroenterology. January 12, 1990  
Baylor College of Medicine, Division of Gastroenterology. January 25, 1990  
National Hospital of Uruguay, Division of Gastroenterology. March 19, 1990

University of Argentina Medical School, Buenos Aires, GI Division. March 21, 1990  
 Vanderbilt University, Department of Surgery. June 2, 1990  
 UCSF School of Medicine, Dept. of Medicine and GI Division. August 22-23, 1990  
 Oregon Health Sciences University, Division of Gastroenterology. November 20, 1990  
 University of Pittsburgh School of Medicine, Division of Gastroenterology. June 14, 1991  
 University of Colorado School of Medicine, Division of Gastroenterology. August 23, 1991  
 Johns Hopkins School of Medicine, Division of Gastroenterology. October 11, 1991  
 Columbia University School of Medicine, Division of Gastroenterology. December 2, 1991  
 Mt. Sinai School of Medicine, Dept. of Medicine and GI Division. December 3, 1991  
 SUNY (Downstate) School of Medicine, Division of Digestive Diseases. March 4, 1992  
 University of Washington, Division of Gastroenterology. September 11, 1992  
 Stanford Univ. School of Medicine, Dept. of Medicine and GI Division. October 8-9, 1992  
 Walter Reed Hospital. Department of Medicine. October 16, 1992  
 Medical College of Virginia, Dept. of Medicine and GI Division. October 22, 1992.  
 McMaster University School of Medicine, Dept. of Medicine. November 10-12, 1992  
 UCSF School of Medicine, Division of Gastroenterology. December 8-9, 1992  
 Oregon Health Sciences University, Dept. of Medicine and GI Division. January 26, 1993  
 Univ. of Alabama, Birmingham, Dept. of Medicine and GI Division. February 17-18, 1993  
 University of Michigan, Division of Gastroenterology. March 23, 1993  
 Henry Ford Hospital, Division of Gastroenterology. March 22-23, 1993  
 Albert Einstein College of Medicine, Division of Gastroenterology. March 25, 1993  
 SUNY (Downstate) School of Medicine, Division of Digestive Diseases. April 23, 1993  
 Mt. Sinai School of Medicine, Division of Gastroenterology. April 23, 1993  
 Robert Wood Johnson Medical School, Division of Gastroenterology. April 24, 1993  
 UC Davis School of Medicine, Dept. of Medicine and GI Division. November 11, 1993  
 UCSF School of Medicine, Division of Gastroenterology. October 1-2, 1993  
 University of Connecticut School of Medicine, GI Division. October 6-7, 1993  
 Cleveland Clinic, Department of Medicine and GI Division. November 17-18, 1993  
 University of Texas, San Antonio, Division of Gastroenterology. December 9, 1993  
 Cornell University School of Medicine, Department of Medicine. January 13, 1994  
 University of Arizona School of Medicine, Division of Gastroenterology. April 23, 1994  
 Kansas University School of Medicine, Division of Gastroenterology. April 26, 1994  
 Univ. of Minnesota School of Medicine, GI Division and Dept. of Surgery. June 17-18, 1994  
 Wayne State University School of Medicine, GI Division. September 9-11, 1994  
 Phoenix V.A.M.C., Division of Gastroenterology. November 8, 1994  
 University of Virginia, Department of Medicine and GI Division. January 11-12, 1995  
 Utrecht University, Department of Gastroenterology. November 8, 1994.  
 University of Florida, Jacksonville, Dept. of Medicine and GI Division. February 28, 1995  
 Columbia University School of Medicine, Division of Gastroenterology. May 1, 1995  
 University of Washington, Division of Gastroenterology. July 14, 1995  
 Mayo Clinic, Division of Gastroenterology. October 11-12, 1995  
 Yale and Affiliated Gastroenterology Programs. October 30-31, 1995  
 University of Utah, Division of Gastroenterology. January 11-12, 1996  
 University of Calgary, Division of Gastroenterology. January 27, 1996  
 Tulane School of Medicine, Division of Gastroenterology. May 31, 1996  
 University of Chicago School of Medicine, Division of Gastroenterology. June 12, 1996  
 University of Illinois at Chicago, Section of Digestive and Liver Diseases. June 12-13, 1996.  
 University of Missouri, Department of Medicine and GI Division. September 5, 1996  
 University of New Mexico, Division of Gastroenterology. October 11, 1996

Oregon Health Sciences University, Dept. of Medicine and GI Division. October 15, 1996  
 University of North Carolina, Dept. of Medicine and GI Division. January 15-16, 1996  
 Albert Einstein College of Medicine, Division of Gastroenterology. April 3, 1997  
 University of Michigan School of Medicine, Dept. of Medicine. May 21-23, 1997  
 University of Cincinnati School of Medicine, Division of Digestive Diseases. June 3-4, 1997  
 Johns Hopkins School of Medicine, Division of Gastroenterology. September 4, 1997.  
 UCSF School of Medicine, Division of Gastroenterology. January 6-7, 1998  
 University of Michigan School of Medicine, Division of Gastroenterology. March 28, 1998.  
 Harbor-UCLA Medical Center, Dept. of Medicine, Division of Gastroenterology. July 28, 1998  
 UCSF School of Medicine, Divisions of Gastroenterology, Rheumatology. August 11-12, 1998  
 Lahey Clinic, Dept. of Medicine (Crozier Lectureship) and GI Division, September 17-18, 1998  
 University of Arizona, Division of Gastroenterology, December 15-16, 1998  
 University of Pittsburgh, Dept. of Medicine, GI, Rheumatology Divisions. January 21-22, 1999  
 University of Arkansas, Dept. of Medicine, GI Division, March 11, 1999  
 Oregon Health Sciences University, GI Division, April 7-8, 1999  
 University of Manitoba GI Forum, June 4, 1999  
 University of Washington. GI Division. October 1, 1999  
 Vanderbilt University. Dept of Medicine and GI Division. January 19-20, 2000.  
 Bethesda Naval Medical Center. Dept. of Medicine and GI Division. April 26-27, 2000  
 University of Minnesota. Dept. of Medicine and GI Division. May 31-June 1, 2000.  
 Jefferson Medical College. GI Division. September 13, 2000.  
 Brigham and Women's Hospital. GI Division. October 4, 2000.  
 Massachusetts General Hospital. Dept. of Medicine (Grand Rounds). October 5, 2000  
 University of Chicago. GI Division (Dr. Norman Frankel Visiting Scholar). November 30, 2000  
 University of Tennessee, Memphis. GI Division. January 8, 2001  
 University of Virginia. Dept. of Medicine and GI Division. March 5-6, 2001  
 University of Miami. Division of Hepatology. March 29-31, 2001  
 University of Nebraska Dept. of Medicine and GI Division (Paustian Lectureship) April 4-5, 2002  
 University of California, Davis. GI Division. September 10, 2002  
 St. Louis University. GI/Liver Division. October 10-11, 2002  
 Northwestern University. GI Division, Dept. of Medicine (Grand Rounds). November 7-9, 2002  
 University of North Carolina. GI Division. February 25-26, 2003.  
 Brooke Army Medical Center. GI Division. March 25, 2003.  
 Kansas University. Dept. of Medicine (Grand Rounds) and GI Division. June 10-11, 2003.  
 Pittsburgh University. Dept. of Medicine (Grand Rounds) and GI Division. November 1-2, 2003.  
 Duke University. GI Division. April 28-29, 2004.  
 University of North Carolina. April 30, 2004  
 Oregon Health Sciences University. GI Division. May 28, 2004  
 UCSD. GI Division. June 1, 2004  
 University of Florida. Dept. of Medicine (Grand Rounds) and GI Division. June 16-17, 2004  
 University of Connecticut. GI Division. March 9, 2005  
 Mayo Clinic Florida. GI Division. June 1-2, 2005  
 Columbia University. GI Division. June 6, 2005  
 Cornell University. GI Division. June 7, 2005.  
 University of Pennsylvania Dept. of Medicine (Grand Rounds); GI Division. Sept. 13-14, 2005  
 University of Washington. GI Division. September 29-30, 2005  
 Washington University, GI Division. January 23-24, 2006.  
 UMDNJ, Dept. of Medicine (Grand Rounds) and GI Division. June 6, 2006  
 University of Colorado GI Division. November 2-3, 2006

Einstein Medical Center, Philadelphia. Dept. of Medicine (Gr Rds), GI Division. March 28, 2007  
 Rochester University School of Medicine. GI Division, September 18-19, 2007  
 University Texas San Antonio, GI Division, November 1, 2007  
 Brooke Army Medical Center, GI Division, November 1-2, 2007  
 UCSD, GI Division, January 15, 2008  
 University of Chicago, Dept. of Medicine (Grand Rounds), GI Division, March 24-25, 2008  
 University of Illinois, Chicago, GI Division, March 26, 2008  
 State University of New York, Downstate, GI Division, April 23, 2008  
 Cedars-Sinai Medical Center, GI Division, September 25, 2008  
 Mt. Sinai School of Medicine, GI Division, May 1, 2009.  
 UCLA David Geffen School of Medicine, GI Division, September 17-18, 2009.  
 University of Manitoba GI Forum, GI Division. June 11, 2010  
 Northwestern University. GI Division. March 16-17, 2011  
 Boston VA Healthcare System (Harvard Medical School). April 12-13, 2011  
 University of Connecticut. GI Division. May 25, 2011.  
 University of Pennsylvania, GI Division. January 4-5, 2012.  
 Mayo Scottsdale. GI Division and Dept. of Medicine. February 2-3, 2012.  
 U.S.C. Medicine Review Course. Maui. March 12-15, 2012.  
 Dartmouth, GI Division and Dept. of Medicine. April 12-13, 2012  
 Temple University, GI Division and Dept. of Medicine. April 25, 2012  
 SUNY Stonybrook, GI Division and Dept. of Medicine. November 14, 2012  
 Columbia and Cornell, GI Divisions (Charles A. Flood Memorial Lecture). December 1, 2012.  
 Brigham & Women's Hospital, Harvard Medical School. GI Division. April 25, 2013.  
 Columbia University. GI Division. April 29, 2013.  
 Vanderbilt University. GI Division. September 27, 2013.  
 Drexel University. Dept. of Medicine (Barbara Frank Visiting Professorship). October 30, 2013.  
 Newton-Wellesley Hospital, Harvard and Tufts Medical School. Dept. of Medicine. (Frederick and Irene Stare Visiting Professorship). November 12-13, 2013.  
 Raymond and Mortimer Sackler Lecture. Norwalk Hospital Medical Gr Rds. November 14, 2013  
 Icahn School of Medicine at Mt. Sinai. GI Division. February 6-7, 2014.  
 NYU School of Medicine. Dept. of Medicine. March 25-26, 2014.  
 Oregon Health Sciences University. GI Division and Dept. of Medicine. July 21-22, 2014  
 University of Kentucky. GI Division. November 20-21, 2014  
 Patrick Calabrese Memorial Lecture, Bridgeport Hospital Medical Gr Rounds. March, 12, 2015  
 Northwestern University. GI Division and Dept. of Medicine. April 27-28, 2015.  
 Jefferson Medical College. GI Division. June 17, 2015.  
 New York Medical College. GI Division and Dept. of Medicine. May 4, 2016  
 University of Connecticut. GI Division. October 26, 2016.

#### **Invited Lectures -- Regional Societies:**

Orange County Gastroenterology Society. October 6, 1987  
 Southern California GI Endoscopy Society Biennial Symposium. March 4-6, 1988  
 San Diego Gastroenterology Society. June 14, 1989  
 New Jersey State Gastroenterology Society. November 2, 1989  
 Southern California GI Endoscopy Society Biennial Symposium. February 24-25, 1990  
 Arkansas-Oklahoma Gastroenterology Society Annual Meeting. June 22-23, 1990  
 Kentucky Medical Association Annual Meeting. September 27, 1990  
 Kentucky Gastrointestinal Endoscopy Society Annual Meeting. September 27, 1990  
 Atlanta Gastroenterology Society. October 23, 1990



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Phoenix Society of Gastroenterology. June 27, 1991  
 New England Endoscopy Society. October 9, 1991  
 New York Academy of Gastroenterology. December 4, 1991  
 Southern California GI Endoscopy Society Biennial Symposium. Feb. 29-March 1, 1992  
 Brooklyn Society of Gastroenterology. March 4, 1992  
 Pacific Northwest Gastroenterology Society. September 10, 1992  
 Virginia Gut Club. October 22, 1992  
 New Jersey Society for Gastrointestinal Endoscopy. March 2, 1993  
 Michigan Society for Gastrointestinal Endoscopy. March 23, 1993  
 New Jersey Society of Gastroenterology Annual Meeting. June 18, 1993  
 Sacramento Gut Club. November 11, 1993  
 Kansas Gut Club. April 26, 1994  
 Orange County Gastroenterology Society. September 13, 1994  
 Cobb County (Georgia) Gut Club. September 20, 1994  
 San Diego Gastroenterology Society. January 26, 1995  
 Jacksonville Gastroenterology Society. February 28, 1995  
 Orange County Gastroenterology Society. March 13, 1995  
 Southern California Society for Gastroenterology Endoscopy. March 27, 1995  
 Pacific Northwest Gut Club. January 4, 1996  
 Delaware Valley Society for Gastrointestinal Endoscopy Annual Meeting. April 24, 1996  
 New Orleans Gut Club. April 30, 1996  
 Chicago Society of Gastroenterology. June 12, 1996  
 Houston Gastroenterology Society. September 12, 1996  
 New Mexico Society of Gastroenterology. October 11, 1996  
 Long Island Gastroenterology Society. September 24, 1997  
 Tennessee Society for Gastrointestinal Endoscopy (Annual Meeting). October 25, 1997  
 Central Louisiana Gut Club. March 26, 1998  
 Arkansas Gut Club. March 11, 1999  
 Hawaii Gut Club. March 16, 1999  
 Utah Gut Club. July 10, 1999  
 New England Endoscopy Society. October 4, 2000  
 Nebraska Gut Club. April 4, 2002  
 Sacramento Gut Club. September 9, 2002  
 San Diego GI Society. June 1, 2004  
 Jacksonville Gut Club. June 1, 2005  
 Pacific Northwest GI Society. September 29, 2005  
 Rochester Gut Club. September 18, 2007.  
 Phoenix Society of Gastroenterology. February 21, 2008.  
 North Carolina Society of Gastroenterology Annual Meeting. February 19, 2011  
 Phoenix Society of Gastroenterology. February 3, 2012.  
 New York Society of Gastrointestinal Endoscopy. December 20, 2012.  
 Southern California Society of Gastroenterology Post DDW Symposium. June 29-30, 2013  
 Kentucky Bluegrass Gut Club. November 20, 2014.  
 New York Society of Gastrointestinal Endoscopy. December 18, 2014.  
 New York Society of Gastrointestinal Endoscopy. December 17, 2015

**Invited Lectures -- National, International Scientific Meetings:**

American Society for Gastrointestinal Endoscopy Annual Postgraduate Course.  
 Los Angeles. February 4, 1989

National Institutes of Health, Consensus Development Conference on Therapeutic Endoscopy and Bleeding Ulcers. March 6-8, 1989

American College of Gastroenterology Annual Meeting. New Orleans. Oct. 24, 1989

Argentine Society of Gastroenterology Annual Symposium. March 14-16, 1990

American Society for Gastrointestinal Endoscopy Annual Postgraduate Course. San Antonio. May 17-18, 1990

National Institutes of Health, Ninth AIDS Clinical Trials Conference. July 10-13, 1990

Singapore Gastroenterology Society Annual Scientific Meeting. December 2, 1990

Hong Kong Society of Gastroenterology Digestive Disease Meeting. Dec. 6-9, 1990

American Society for Gastrointestinal Endoscopy Annual Postgraduate Course. New Orleans. May 23-24, 1991

American Academy of Family Physicians Annual Assembly. Washington, D.C. September 28, 1991

American College of Gastroenterology Regional Symposium, Dallas. Dec. 7, 1991

American Society for Gastrointestinal Endoscopy Annual Postgraduate Course. Washington, D.C. January 24-26, 1992

American Society for Gastrointestinal Endoscopy Annual Scientific Meeting. San Francisco, CA. May 11-12, 1992

American Society for Gastrointestinal Endoscopy Annual Postgraduate Course. San Francisco, CA. May 13-14, 1992

American Gastroenterological Association Postgraduate Course. San Francisco, CA. September 17-19, 1992.

American Academy of Family Physicians Annual Assembly. San Diego, CA October 17, 1992.

American College of Gastroenterology Annual Postgraduate Course. Miami, FL. October 24-25, 1992

American Society for Gastrointestinal Endoscopy Annual Postgraduate Course. La Jolla, CA. February 5-7, 1993

International Congress on the impact of HIV infection on the gastrointestinal tract. Bologna, Italy. March 5-6, 1993

American Society for Gastrointestinal Endoscopy Annual Scientific Meeting.

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Boston, MA. May 19, 1993

American Gastroenterological Association Annual Scientific Meeting. Boston. May 18, 1993

Annual Congress of the Venezuelan Society of Gastroenterology.  
Caracas, Venezuela. September 7-11, 1993

American Association for the Study of Liver Diseases Annual Postgraduate Course.  
Chicago, IL. November 4-5, 1993

Mexican Society of Gastrointestinal Endoscopy. Mexico City. February 2-4, 1994

Fifth Taisho International Symposium on Gastroenterology. Hakone, Japan. April 6-7, 1994.

American Gastroenterological Association Annual Scientific Meeting.  
New Orleans, LA. May 15-18, 1994

American Society for Gastrointestinal Endoscopy Annual Postgraduate Course.  
New Orleans, LA May 19-20, 1994.

American Academy of Family Physicians Annual Assembly. Boston. Sept. 21, 1994.

American College of Gastroenterology Annual Postgraduate Course. San Francisco, CA.  
September 30, 1994.

World Congress of Gastroenterology, Los Angeles, CA. October 2-7, 1994

American Association for the Study of Liver Diseases Annual Scientific Meeting.  
Workshop Director. November 15, 1994.

Fifth Erasmus Gastroenterology Day, Erasmus University, Rotterdam. January 20, 1995

American College of Gastroenterology Regional Postgraduate Course.  
Las Vegas, NV. March 26, 1995

American Gastroenterological Association Annual Postgraduate Course.  
San Diego, CA. May 13-14, 1995

American Gastroenterological Association Annual Scientific Meeting.  
San Diego, CA May 14-17, 1995

American Society of Gastrointestinal Endoscopy Annual Postgraduate Course.  
San Diego, CA. May 18-19, 1995.

American College of Gastroenterology Annual Meeting. New York. October 18, 1995.

Canadian Association of Gastroenterology Annual Meeting, Banff. March 7, 1996

British Society of Gastroenterology, Annual Spring Meeting, Brighton. March 21-22, 1996.

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International Consensus Conference on Non-Variceal Upper GI Hemorrhage.  
Milan April 17, 1996.

American Gastroenterological Association Annual Scientific Meeting.  
San Francisco. May 19-22, 1996.

American Society of Gastrointestinal Endoscopy Annual Postgraduate Course.  
San Francisco. May 23-24, 1996.

American Association for the Study of Liver Diseases, Single Topic Symposium, Portal Hypertension -- Variceal Bleeding, Reston, VA. June 23-24, 1996.

American College of Gastroenterology Annual Postgraduate Course.  
Seattle. October 19-20, 1996

International Workshop on Helicobacter Pylori. Hong Kong. December 1-2, 1996

International Workshop on Therapeutic Endoscopy. Hong Kong. December 3-5, 1996

American Society of Gastrointestinal Endoscopy Annual Winter Postgraduate Course.  
New York City. March 7-9, 1997

American Gastroenterological Association Annual Postgraduate Course.  
Washington, D.C. May 10-11, 1997

American Gastroenterological Association and American Society of Gastrointestinal Endoscopy Annual Scientific Meetings. Washington, D.C. May 11-14, 1997

American Society of Gastrointestinal Endoscopy Annual Postgraduate Course.  
Washington, D.C. May 15-16, 1997

Asian Digestive Disease Week. Hong Kong. December 12-17, 1997.

American Gastroenterological Association Academic Skills Workshop.  
San Diego. January 15-18, 1998

American Gastroenterological Association Annual Scientific Meeting. New Orleans, LA.  
May 17-20, 1998

American Society of Gastrointestinal Endoscopy Annual Postgraduate Course.  
New Orleans, LA. May 21-22, 1998.

American College of Gastroenterology Annual Meeting: Program Chairman, GI Research: Investigator, Industry, and FDA Perspectives. Boston, MA October 9, 1998.

Fifth International Meeting on Therapeutic Advances in Hepatogastroenterology. Seville, Spain.  
February 8-10, 1999

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American Gastroenterological Association Annual Scientific Meeting. Orlando, FL.  
May 16-19, 1999

American Society of Gastrointestinal Endoscopy Annual Postgraduate Course.  
Orlando, FL. May 20-21, 1999

Pan American Gastroenterology Congress Postgraduate Course. Vancouver.  
August 31, 1999

American Society of Gastrointestinal Endoscopy Hands-On Endoscopy Course. Cincinnati.  
October 8-9, 1999

10<sup>th</sup> Taisho Helicobacter Pylori Forum. Tokyo. October 16, 1999

American College of Gastroenterology Annual Scientific Meeting. Phoenix. October 19, 1999

3<sup>rd</sup> Baveno International Consensus Workshop on Portal Hypertension Stresa, Italy.  
April 12-14, 2000.

American Gastroenterological Association Annual Postgraduate Course. San Diego, CA. May  
20-21, 2000.

American Gastroenterological Association Annual Scientific Meeting. San Diego, CA. May 21-  
24, 2000.

American Society of Gastrointestinal Endoscopy Annual Postgraduate Course. San Diego, CA.  
May 25-26, 2000

European H. Pylori Study Group Annual Meeting. Rome. October 12-14, 2000.

American College of Gastroenterology Annual Meeting. New York. October 16-18, 2000.

American Gastroenterological Association Annual Postgraduate Course. Atlanta. May 19-20,  
2001.

American Gastroenterological Association Annual Scientific Meeting. Atlanta. May 20-23, 2001

Argentine Congress of Gastroenterology and Digestive Endoscopy. Mar del Plata. September  
22-25, 2001.

American Society of Gastrointestinal Endoscopy Postgraduate Course. Las Vegas. October  
19, 2001.

University of Bologna Workshop in Upper and Lower Gastrointestinal Disease. Bologna.  
October 26-27, 2001.

American Gastroenterological Association Annual Postgraduate Course. San Francisco. May  
18-19, 2002.

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American Gastroenterological Association Annual Scientific Meeting. San Francisco. May 19-22, 2002

American Society of Gastrointestinal Endoscopy Postgraduate Course. Seattle. October 18, 2002

American College of Gastroenterology Annual Meeting. Seattle. October 22, 2002.

American Gastroenterological Association Annual Postgraduate Course. Orlando. May 17-18, 2003.

American Gastroenterological Association Annual Scientific Meeting. Orlando. May 18-21, 2003.

American Society of Gastrointestinal Endoscopy Annual Fall Postgraduate Course. Baltimore. October 10, 2003.

American College of Gastroenterology Annual Scientific Meeting. Baker Presidential Lecture. Baltimore. October 15, 2003.

American College of Surgery Annual Scientific Meeting. Chicago. October 20, 2003.

American Gastroenterological Association Annual Meeting. New Orleans. May 15-18, 2004

NIH/AGA Symposium on Advanced Imaging and Technology in Gastrointestinal Neoplasia. Bethesda. October 4-5, 2004

American College of Gastroenterology Annual Scientific Meeting. Orlando. November 2, 2004

4<sup>th</sup> Baveno International Consensus Workshop on Portal Hypertension. Baveno, Italy. April 27-29, 2005

American Gastroenterological Association Annual Postgraduate Course. Chicago. May 14-15, 2005.

American Gastroenterological Association Annual Scientific Meeting. Chicago. May 15-18, 2005.

World Congress of Gastroenterology (Are Global Guidelines Feasible). Montreal. September 12, 2005

United European GI Week (UEGW). (Best of DDW: Acid-Peptic Disorders and Endoscopy) Copenhagen. October 18, 2005

American College of Gastroenterology Postgraduate Course. Honolulu. October 29-30, 2005

American College of Gastroenterology Annual Scientific Meeting. (Moderator, Speaker: Upper GI Bleeding) Honolulu. October 31, 2005

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American Gastroenterological Association Annual Postgraduate Course. Los Angeles. May 20-21, 2006.

American Gastroenterological Association Annual Scientific Meeting. Los Angeles. May 21-24, 2006 (including State-of-the-Art Plenary Session Address).

American College of Gastroenterology Annual Postgraduate Course. Las Vegas. October 21-22, 2006.

First International Working Party on the Gastrointestinal and Cardiovascular Effects of NSAIDs and Anti-platelet Drugs. Miami. November 18-19, 2006

Canadian Association of Gastroenterology Annual Meeting: Consensus Conference on the Use of Cyclooxygenase-2 Inhibitors and Conventional NSAIDs Including Aspirin. Banff, Alberta. February 20-21, 2007.

American Gastroenterological Association Annual Postgraduate Course. Washington, D.C. May 19-20, 2007.

American Gastroenterological Association Annual Scientific Meeting. Washington, D.C. May 20-23, 2007

American Association for the Study of Liver Diseases (AASLD) Single Topic Conference: Portal Hypertension and Variceal Bleeding: Unresolved Issues. Atlanta. June 4-6, 2007

American College of Gastroenterology Annual Postgraduate Course. Philadelphia. October 13-14, 2007.

American Gastroenterological Association Annual Postgraduate Course. San Diego. May 17-18, 2008.

American Gastroenterological Association Annual Scientific Meeting. San Diego. May 18-21, 2008.

South African Gastroenterology Society Annual Congress and The Solly Marks Lecture. Cape Town. August 8-11, 2008.

American College of Gastroenterology Annual Postgraduate Course. Orlando. October 5-6, 2008.

International Consensus Conference on Nonvariceal Upper Gastrointestinal Bleeding. Vienna, Austria. October 22-24, 2008.

PanAmerican Congress of Gastroenterology. Santiago, Chile. November 11-14, 2008

American Gastroenterological Association Annual Postgraduate Course. Chicago. May 30-31, 2009.

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American Gastroenterological Association Annual Scientific Meeting. Chicago. May 31-June 3, 2009.

American Society for Gastrointestinal Endoscopy First Year Fellows Course. Oak Brook, IL. August 1-2, 2009.

American College of Gastroenterology Annual Postgraduate Course. San Diego. October 24-25, 2009.

American Association for the Study of Liver Diseases Annual Postgraduate Course. Boston. October 30-31, 2010.

Keio Medical Society Meeting. Tokyo. November 18, 2010.

Japan & U.S. Collaboration Conference in Gastroenterology. Tokyo. November 19-20, 2010.

American Gastroenterological Association Clinical Congress. Las Vegas. January 15-16, 2010.

American Gastroenterological Association Annual Postgraduate Course. New Orleans. May 1-2, 2010.

American Gastroenterological Association Annual Scientific Meeting. New Orleans. May 2-5, 2010.

5<sup>th</sup> Baveno International Consensus Workshop on Portal Hypertension. Stresa, Italy. May 21-22, 2010

American Association for the Study of Liver Diseases-American Society for Gastrointestinal Endoscopy Annual Course (Co-Chair and Speaker). Boston, October 29, 2010.

American Gastroenterological Association Annual Clinical Congress. Miami. January 14-15, 2011

Canadian Digestive Disease Week, February 25-29, 2011. Vancouver. (Canadian Association of Gastroenterology R.D. McKenna Memorial Lectureship)

La Asociación Española de Gastroenterología (Spanish Gastroenterology Association) Annual Scientific Meeting. Madrid. March 24-25, 2011

American Gastroenterological Association Annual Scientific Meeting. Chicago. May 7-10, 2011.

American Gastroenterological Association Annual Postgraduate Course. San Diego. May 19-20, 2012.

American Gastroenterological Association Annual Scientific Meeting. San Diego. May 19-22, 2012.



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Sociedad Española de Patología Digestiva (Spanish Society of Digestive Disease) Annual Meeting. Bilbao. June 2-5, 2012

American Gastroenterological Association Annual Clinical Congress. San Diego. January 18-19, 2013.

2<sup>nd</sup> Gut Microbiota for Health World Summit. Madrid, Spain. February 24-26, 2013.

American Gastroenterological Association Annual Postgraduate Course. Orlando. May 18-19, 2013.

American Gastroenterological Association Annual Scientific Meeting. Orlando. May 18-21, 2013.

American Association for the Study of Liver Diseases (AASLD) and European Association for the Study of the Liver (EASL) Single Topic Conference: Portal Hypertension and Variceal Hemorrhage. Atlanta. June 8-9, 2013

Gastroenterology Foundation of South Africa Conference: NSAIDs, Coxib, Antiplatelet Agents and Anticoagulants. Cape Town. September 7-8, 2013.

American College of Gastroenterology Annual Postgraduate Course. San Diego. October 12-13, 2013.

United European Gastroenterology Week. Berlin. October 14-16, 2013.

American Gastroenterological Association Annual Scientific Meeting. Chicago. May 3-6, 2014.

American College of Gastroenterology Annual Postgraduate Course. Philadelphia. October 18-19, 2014.

American Gastroenterological Association Annual Clinical Congress. Miami. January 22-24, 2015

Boston Live Endoscopy Course. Boston. October 30-31, 2016.

American Gastroenterological Association Annual Scientific Meeting. San Diego. May 21-24, 2016

American Association for the Study of Liver Diseases-American Society for Gastrointestinal Endoscopy Annual Course. Boston, November 11, 2016.

**Teaching Responsibilities (U.S.C. School of Medicine):**

Lecturer: Master Professor Rounds, Dept. of Medicine, 1995-1997, 2002, 2003, 2005-2010  
GI/Liver Organ System, 2nd Year Curriculum, 1985 to present  
USC Internal Medicine Review Course, 1984-1992  
USC Gastroenterology Review Course, 1987, 1989, 1992  
Mechanisms of Disease Course, 4th Year Curriculum, 1986

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Course Director: Medical Students

Mechanisms of Disease, 4th year Curriculum, 1986

GI/Liver Organ System, 2nd Year Curriculum, 1987 to 1991

**Continuing Medical Education—USC School of Medicine**

GI Section of ACP Medicine Review Course. L.A., July 1985

H. Pylori Symposium. Los Angeles, December 2, 1996

H. Pylori Symposium. San Francisco, May 19, 1996

Esophageal Disease Symposium. San Francisco, May 20, 1996

H. Pylori Symposium. Chicago. June 21, 1996

H. Pylori Symposium. Boston. September 20, 1996

H. Pylori Symposium. Long Beach. April 6, 1996

H. Pylori Symposium. Washington, D.C. May 11, 1997

H. Pylori Symposium. Chicago, IL. October 31, 1997

Irritable Bowel Symposium. Orlando, FL. May 16, 1999

NSAID Gastropathy Symposium. Orlando FL. May 17, 1999

Gastroenterology Update. Los Angeles. April 7, 2001

Gastroenterology Update. Los Angeles. September 29, 2001

Gastroenterology Update. Los Angeles. October 12, 2002

Gastroenterology Update. Los Angeles. February 21, 2004

Gastroenterology Update. Los Angeles. July 28, 2006

**Teaching Responsibilities (Yale School of Medicine/VA CT):**

MD/PhD Skill Development for Diverse Scientific Careers 2017

Professor Rounds 2012 -

GI Case Conference (Chair) 2013 -

Fellows Clinical Research Conference (Chair) 2012 -

Faculty Clinical Research Conference (Chair) 2012 -

GI Fellow Core Curriculum Lectures 2012 -

Medical Resident Noon Lectures 2012 -

Physician Assistant GI Curriculum 2013-

Year 2 Medical Student GI/Liver Module 2015-

**Continuing Medical Education—Yale University School of Medicine**

Yale vs. Harvard, The Course. Bermuda. April 20-21, 2012.

Digestive Disease Week Review, Westbrook, CT June 15, 2012

Yale vs. Harvard, The Course. Bermuda. April 19-20, 2013.

Yale Liver Update 2013. Westport, CT. May 10, 2013

Digestive Disease Week Review, Madison, CT. June 14, 2013

Digestive Disease Week Review, Westbrook, CT. May 30, 2014

Yale vs. Harvard, The Course. Bermuda. June 14-15, 2014.

Yale vs. Harvard, The Course. Bermuda. April 17-18, 2015

Yale Therapeutic ERCP/EUS Workshop, New Haven, CT. May 8, 2015

Digestive Disease Week Review, Westbrook, CT. June 12, 2015.

Yale Liver Update, New Haven, CT. December 4, 2015.

Yale vs. Harvard, The Course. Bermuda. April 29-30, 2016

Digestive Disease Week Review, Westbrook, CT. June 10, 2016

**Attending Physician:** LAC+USC Medical Center (through 2011)

Kenneth Norris Jr. Cancer Hospital (through 2011)  
USC University Hospital (through 2011)  
V.A. Connecticut Healthcare System 2011 -

**Committee Service – U.S.C.:**

Curriculum Committee. 1985 to 1990  
Committee on Student Performance. 1985 to 1990  
Pharmacy & Therapeutics Committee -- Kenneth Norris Jr. Cancer Hospital 1985 to 1996  
Medicine Private Practice Advisory Committee. 1987 to 1988  
Clinical Access Task Force -- USC University Hospital. 1990  
Practice Plan Advisory Committee -- Department of Medicine. 1990 to 1992  
Utilization Management Committee -- USC University Hospital. 1991 to 1994  
Dean's Committee on Conflict of Interest. 1993  
Department of Medicine Professional Services Committee. 1993 to 1996  
Department of Medicine Practice Committee. 1993 to 1996  
Endoscopy Committee -- USC University Hospital. 1994 to 2003  
Committee on Voluntary Faculty. 1995  
Department of Medicine Development Subcommittee. 1997 to 1999  
Faculty Senate: White Paper on Faculty Accountability. 1997  
Resource Allocation Committee--USC University Hospital/USC Norris Cancer Hospital 2009-2011  
Credentials & Privileges Committee—L.A.C. + U.S.C. Healthcare Network 2010-2011  
Bylaws Committee—L.A.C. + U.S.C. Healthcare Network 2010-2011  
Executive Peer Review Committee—L.A.C. + U.S.C. Healthcare Network (Co-Chair) 2010-2011  
Risk Management Committee—L.A.C. + U.S.C. Healthcare Network 2010-2011

**Elected Service -- USC:**

Medical Faculty Assembly. 1993 to 2001  
Medical Faculty Assembly -- Executive Committee. 1995 to 2001  
Medical Faculty Assembly -- Treasurer. 1995 to 1996  
Medical Faculty Assembly -- Secretary. 1997 to 1998  
Medical Faculty Assembly -- President-Elect. 1998-1999  
Medical Faculty Assembly -- President. 1999-2000  
U.S.C. Academic Senate. 1998-2000  
Executive Committee, L.A. County+U.S.C. Medical Center. 1997-2011  
Chief of Staff/President, Medical Staff Association, L.A. County + U.S.C. Healthcare Network, 2010-2011

**Committee Service – Yale/VA Connecticut**

Committee on Integration of Hospital of St. Raphael 2012 - 2013  
Clinical Affairs Committee 2012 -  
Surgery and Other Invasive Procedures Committee, West Haven VA Medical Center 2013 -  
Digestive Diseases Fellowship Review Committee 2015 -

**Publications in Peer Review Journals (H-INDEX = 60):**

1. Laine L, Holt K. Recurrent pericarditis and celiac disease. JAMA 1984;252:3168.
2. Chojkier M, Laine L, Conn HO, Lerner E. Predictors of outcome in major upper gastrointestinal hemorrhage. J Clin Gastroenterol 1986;8:16-22.

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3. Laine L, Chojkier M. Hepatic collagen production in the rat is unaffected by methotrexate. *Proc Soc Exp Biol Med* 1986;184:194-200.
4. Laine L. Multipolar electrocoagulation in the treatment of active upper gastrointestinal tract hemorrhage: A prospective controlled trial. *N Engl J Med* 1987;326:1613-7.
5. Laine L, Politoske EJ, Gill P. Protein-losing enteropathy in AIDS due to intestinal Kaposi's sarcoma. *Arch Intern Med* 1987;147:1174-5.
6. Laine L, Bentley E, Chandrasoma P. The effect of oral iron therapy on the upper gastrointestinal tract: A prospective evaluation. *Dig Dis Sci* 1988;33:172-7.
7. Laine L, Weinstein WM. Subepithelial hemorrhages and erosions of human stomach. *Dig Dis Sci* 1988;33:490-503.
8. Laine L, Weinstein WM. The histology of alcoholic hemorrhagic "gastritis": a prospective evaluation. *Gastroenterology* 1988;94:1254-62.
9. Pettross CW, Appleman MD, Cohen H, Valenzuela JE, Chandrasoma P, Laine L. Prevalence of *Campylobacter pylori* and association with antral mucosal histology in subjects with and without upper gastrointestinal symptoms. *Dig Dis Sci* 1988;33:649-53.
10. Laine L. A prospective trial of an anti-splatter device for the protection of endoscopic personnel from potentially AIDS-infective fluids. *Gastrointest Endosc* 1988;34:470-1.
11. Laine L. Multipolar electrocoagulation in the treatment of peptic ulcers with non-bleeding visible vessels: A prospective, controlled trial. *Ann Intern Med* 1989;110:510-4.
12. Laine L, Marin-Sorensen M, Weinstein WM. *Campylobacter pylori* in alcoholic hemorrhagic "gastritis". *Dig Dis Sci* 1989;34:677-80.
13. Valenzuela JE, Schubert T, Fogel MR, Strong RM, Levine J, Mills PR, Fabry TL, Taylor LW, Conn HO, Posillico JT, Colturie T, Korula J, Grace ND, Griffin PH, Schiff EE, Laine L. A multicenter, randomized double-blind trial of somatostatin in the management of acute hemorrhage from esophageal varices. *Hepatology* 1989;6:958-61.
14. Bonacini M, Laine L, Gal A, Lee MH, Martin JE, Strigle S. Prospective evaluation of blind brushing of the esophagus for candida esophagitis in patients with human immunodeficiency virus infection. *Am J Gastroenterol* 1989;85:385-9.
15. Laine L, Amerian J, Rarick M, Harb M, Gill PS. The response of symptomatic gastrointestinal Kaposi's sarcoma to chemotherapy: A prospective evaluation using an endoscopic method of disease quantification. *Am J Gastroenterol* 1990;85:959-61.
16. Laine L. Multipolar electrocoagulation vs. injection therapy in the treatment of bleeding peptic ulcers: A prospective, randomized trial. *Gastroenterology* 1990;99:1303-6.
17. Laine L. Bipolar/multipolar electrocoagulation. *Gastrointest Endosc* 1990;36:S38-41.
18. Laine L. Determination of the optimal technique for bipolar electrocoagulation treatment: An experimental evaluation of the BICAP and gold probes. *Gastroenterology* 1991;100:107-12.
19. Laine L. Endoscopic therapy for peptic ulcer hemorrhage: Heater probe and alcohol injection. *Gastroenterology* 1991;100:575-7.
20. Cook DJ, Laine L, Guyatt GH, Raffin TA. The role of gastric pH in nosocomial pneumonia: A meta-analysis. *Chest* 1991;100:7-13.
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